Title (en)

Method and device for cooling hot-rolled profiles

Title (de)

Verfahren und Vorrichtung zum Abkühlen von warmgewalzten Profilen

Title (fr)

Procédé et dispostif de refroidissement de profilés laminés à chaud

Publication

EP 0725152 B1 20000308 (DE)

Application

EP 96100807 A 19960120

Priority

DE 19503747 A 19950204

Abstract (en)

[origin: EP0725152A1] Process for cooling hot rolled sections from rolling heat,where there have parts of differing mass (1 - 5) distributed over their cross section, e.g. rail sections, whereby radiant heat sensors (30 - 32) in conjunction with a computer (40) and appropriate program are used to establish the heat to be abstracted from each of the section parts (10 - 12) according to mass (1 - 5) and temperature and the volume of cooling media (48) required therefore, followed by controlled cooling of the differing section parts (10 - 12) such that the transformation lines (Ar3 / Ar1) in the change from the gamma phase to ferrite and / or pearlite with release of transformation heat are reached as quickly as possible. Process equipment is also claimed.

IPC 1-7

C21D 9/04

IPC 8 full level

B21B 1/08 (2006.01); **B21B 45/02** (2006.01); **C21D 9/04** (2006.01); **C21D 11/00** (2006.01); C21D 1/02 (2006.01); C21D 1/667 (2006.01)

CPC (source: EP KR)

C21D 1/02 (2013.01 - KR); **C21D 9/0062** (2013.01 - KR); **C21D 9/04** (2013.01 - EP KR); **C21D 11/00** (2013.01 - KR); C21D 1/02 (2013.01 - EP); C21D 1/667 (2013.01 - EP); C21D 11/00 (2013.01 - EP); C21D 2221/02 (2013.01 - KR)

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0725152 A1 19960807; **EP 0725152 B1 20000308**; AT E190360 T1 20000315; CN 1076757 C 20011226; CN 1139595 A 19970108; DE 19503747 A1 19960808; DE 59604567 D1 20000413; ES 2144161 T3 20000601; JP 4020445 B2 20071212; JP H08239719 A 19960917; KR 960031630 A 19960917

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EP 96100807 A 19960120; AT 96100807 T 19960120; CN 96104086 A 19960202; DE 19503747 A 19950204; DE 59604567 T 19960120; ES 96100807 T 19960120; JP 1673496 A 19960201; KR 19960001475 A 19960124